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1 Parallel loop transformation technique for efficient race detection

Jeong-Si Kim; Dong-Soo Han; Chan-Su Yu;

 Parallel and Distributed Systems, 2001. ICPADS 2001. Proceedings. Eighth International Conference on , 26-29 June 2001
Pages:265 - 272

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Ralph Grishman, Mahesh Chitrao

February 1988 **Proceedings of the second conference on Applied natural language processing**Full text available:  pdf(457.57 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#) [Publisher Site](#)

We describe a parallel implementation of a chart parser for a shared-memory multiprocessor. The speed-ups obtained with this parser have been measured for a number of small natural-language grammars. For the largest of these, part of an operational question-answering system, the parser ran 5 to 7 times faster than the serial version.

2 [The privatizing DOALL test: a run-time technique for DOALL loop identification and array privatization](#)

Lawrence Rauchwerger, David Padua

July 1994 **Proceedings of the 8th international conference on Supercomputing**Full text available:  pdf(1.27 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current parallelizing compilers cannot identify a significant fraction of fully parallel loops because they have complex or statically insufficiently defined access patterns. For this reason, we have developed the Privatizing DOALL test—a technique for identifying fully parallel loops at run-time, and dynamically privatizing scalars and arrays. The test itself is fully parallel, and can be applied to any loop, regardless of the structure of its data and/or control flow. The technique ...

3 [The parascope editor: an interactive parallel programming tool](#)

V. Balasundaram, K. Kennedy, U. Kremer, K. McKinley, J. Subhlok

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**Full text available:  pdf(1.34 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ParaScope project is building an integrated collection of tools to help scientific programmers develop correct and efficient parallel programs. The centerpiece of this collection is the ParaScope Editor, an intelligent interactive editor for parallel FORTRAN programs. The ParaScope Editor displays data dependencies, which correspond to potential data races among the iterations of a parallel loop, to assist the user in determining the